



UTAH DEPARTMENT OF
HEALTH

Data Modernization Initiative

Challenges Highlighted by COVID Pandemic



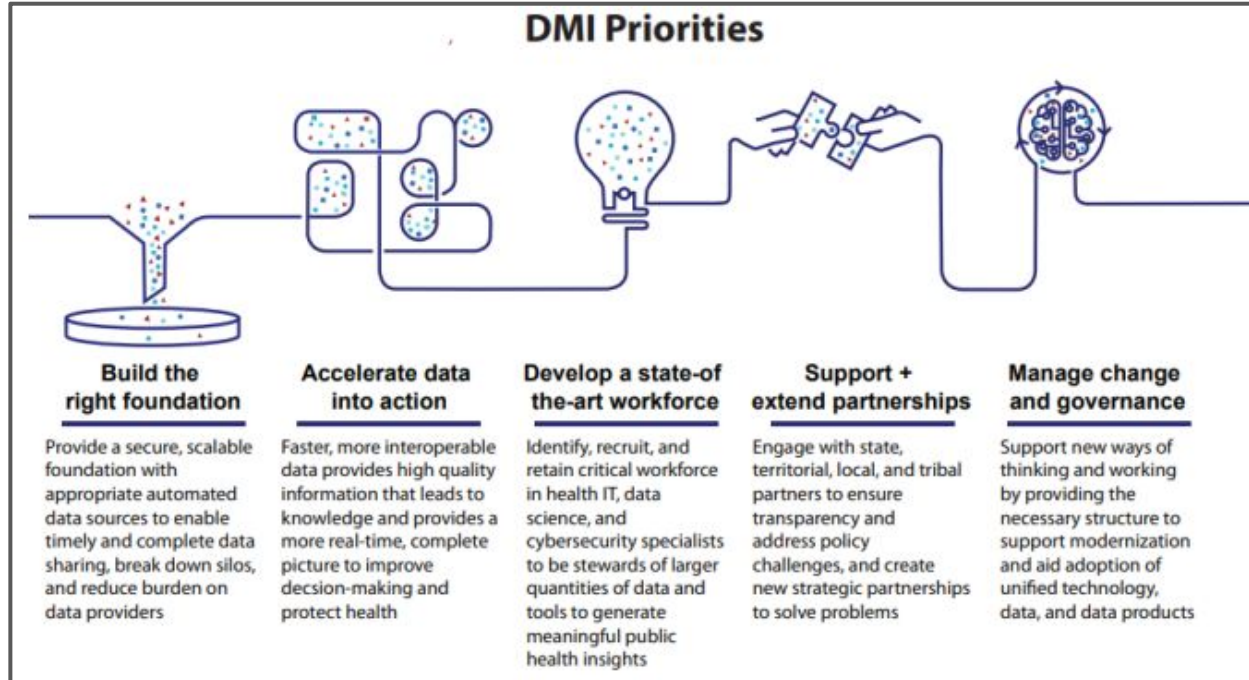
- Public health information systems are antiquated, brittle, siloed, and underfunded
- Challenges include:
 - Outdated technology
 - Scalability and flexibility
 - Interoperability
 - Collecting timely, accurate, and complete data
 - Manual data collection processes
 - Data sharing among public health partners

Data must move faster than the disease

Data Modernization Initiative



National effort to create modern, integrated, and real-time public health data and surveillance that can protect us from any health threat



ELC Data Modernization - COVID



Tier 1: Core Data Modernization Infrastructure

Tier 2: eCR (Electronic Case Reporting) Scale Up

Tier 3: NVSS (National Vital Statistics System) Modernization

Performance period ends 7/31/2023



- Enterprise approach to coordinating data modernization activities across the department for all information systems, diseases, and conditions
- Health Information Technology (HIT) Strategic Council oversee these activities
- Data Modernization Leads:
 - Division of Data, Systems, and Evaluation Director
 - Division of Population Health Informatics Program Manager
- Data Modernization Coordinator:
 - Reports to Division of Data, Systems, and Evaluation Director

Tier 1: Coordinate Modernization Efforts



- Needs assessment/gap analysis
 - Health information systems and services
 - Workforce capacity
- Develop a plan
 - Full data modernization plan for IT and informatics infrastructure
 - Workforce development plan

Tier 1: System Modernization



- Evaluating systems
 - Information gathering has started
 - ECIDS, IBIS, DOHMPI, CHARM
 - OVRS, UINTAH, EDEN
- Collaboration with DM LC
 - Creating a more detailed assessment tool (April 13th)
 - Review and revisit systems
- Next steps
 - Prioritizing data collection and system interoperability
 - Phase out of legacy platforms

Tier 1: Workforce Enhancement



Evaluate, Appraise, Train

Evaluate:

Focus on self-evaluation and questionnaires to set skill standards.

Appraise:

Identify skill gaps based on evaluation and establish a goal to close the gap.

Train:

Utilize specific training resources to meet the goal and reinforce necessary skills.

Tier 2: Electronic Case Reporting Scale Up



- eCR is the automated, real-time exchange of case report information between electronic health records and public health agencies
- Utah has been an early adopter of eCR
- Primary objectives:
 - Engage with healthcare organizations - awareness and compliance
 - Active onboarding and validation
 - Enhance data processing and data use
 - Targeted organizations: Local Health Departments and FQHCs

Tier 3: NVSS Modernization



- The National Vital Statistics System (NVSS) provides the most complete data on the registration of vital events – births, deaths, marriages, divorces, and fetal deaths.
- Modernization goal for NVSS: to transform the National Vital Statistics System into a tool for real-time public health surveillance.
- Mortality data - first of the vital events to be modernized.
- Primary Objective: providing data to NCHS using FHIR-based interoperability.
- Utah Vital Records Office is an early adopter in embracing FHIR technology
- Additional Activities:
 - Rewriting the electronic birth registration system, Utah Internet Application for Hospitals (UINTAH)
 - Linking birth-death records
 - Automating birth data reporting workflows